

In the claims:

1. (Previously presented) A distillation process comprising providing to an evaporator a feed stream comprising a mixture of a lower boiling point solvent and a higher boiling point target compound, flashing off from said mixture a multi-component vapor containing said solvent and said target at a temperature of said mixture below the boiling point of said target, separating said target compound from said multi-component vapor, and providing to said evaporator a dilutive solvent comprising additional amounts of said solvent in sufficient amount to maintain said temperature of said mixture in said evaporator during said step of flashing off.

2. (Previously presented) A process according to claim 1 wherein said target is mixed with a non-volatile contaminate or a contaminate having a boiling point higher than that of said target, which remains in said evaporator.

3. (Previously presented) A process according to claim 2 further comprising the step of providing said multi-component vapor to means for separating said target from said solvent.

4. (Original) A process according to claim 3 wherein said means for separating comprises a distillation tower.

5. (Original) A process according to claim 3 wherein said solvent is water and said target is ethylene glycol.

6. (Original) A process according to claim 3 wherein said target is an amine.

7. (Cancelled)

8. (Previously presented) A process according to claim 1 further comprising removing bottoms from said evaporator, cooling said bottoms and separating sediment from supernatant, and adding said supernatant to said evaporator.

9. (Withdrawn) A target compound obtained by a process comprising providing to an evaporator a mixture of a lower boiling point solvent and said target compound, wherein the boiling point of said target compound is higher than that of said solvent, flashing off from said mixture a multi-component vapor containing said solvent and said target compound at a temperature of said mixture that is below the boiling point of said target compound, providing a feed stream of said mixture to said

evaporator, maintaining said temperature of said mixture by providing to said evaporator a dilutive solvent comprising additional amounts of said solvent, and separating said target compound from said solvent to provide said target compound.

10. (Withdrawn) A target compound according to claim 9 comprising ethylene glycol.

11. (Withdrawn) A target compound according to claim 9 comprising an amine.

12 through 14 (Cancelled)

15. (Currently amended) A method for separating a target compound from a mixture of said target compound and a solvent, wherein the boiling point of said target compound is higher than the boiling point of said solvent, said method comprising heating said mixture to a temperature lower than the boiling point of said target compound to provide a multi-component vapor comprising said target compound and said solvent, providing said multi-component vapor to a distillation column, condensing vapors passing up said distillation column to provide a condensed stream, and providing said condensed stream to said mixture according to claim 14 wherein said solvent is water and said target compound is ethylene glycol and said temperature is about 260 degrees Fahrenheit.

16 through 18 (Cancelled)